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ORIGINAL CASE 235979  
 DECISION 2010  
 EXTENDED BY S. AMC  
 REASON 3 d (3)

**PROGRESS REPORT  
FOR  
MONTH OF SEPTEMBER 1960**

**1-10 KMC ANTENNA**

**Purpose:** To design, develop, and construct five 1-10 KMC antennas.

**Personnel:** Electrical Engineer:   
 Mechanical Engineer:

**Status:** An etched copper sheet antenna is being evaluated and seems to exhibit better radiation patterns than a printed circuit antenna because of the degrading effect of the dielectric board. The VSWR is still above the specified maximum at several points. Steps are being taken to improve the VSWR by revising the tip and balun designs.

A protective cover is being constructed of lock-foam. Samples of this material have exhibited adequate mechanical characteristics. The dielectric constant appears low enough to have little effect on the electrical performance.

**Future Plans:** A mold will be made for the lock-foam cover and upon receipt of this part, VSWR and radiation patterns will be run and evaluated.

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